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AMENDMENTS TO THE ABSTRACT:

Please delete the Abstract previously filed and substitute therefor the Abstract of the Disclosure attached as a separate page.



ABSTRACT OF THE DISCLOSURE

The detection/monitoring of microorganisms present in a sample is enabled through the use of a fiber optic biosensor with an evanescent-field. Embodiments include: (i) a method for detection of contamination by specific microorganisms through the use of said biosensor, permitting the interaction of 5 the exposed evanescent-field with the sample to be examined which has a form adequate to obtain the generation of an optical signal in response to the presence of microorganisms in said sample; (ii) a composition for use in the detection of microorganisms; and (iii) a device for surveying microorganisms through an insertion of a sensitive fiber optic, with an adequately exposed 10 evanescent-field, into a surface or volume of a biological culture medium specific for the microorganism to be detected, comprising a demodulation system based on a fiber optic circuit and related components.